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**LITTLE BLIZZARD<sup>®</sup> DMX**  
**LITTLE BLIZZARD<sup>®</sup> SP DMX**  
**Operating Instructions**

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**LB DMX P/N 100241 (120 VAC)**  
**LB DMX P/N 100246 (230 VAC)**  
**LBSP DMX P/N 100242 (120 VAC)**  
**LBSP DMX P/N 100247 (230 VAC)**

## **Thank you for purchasing this LITTLE BLIZZARD®**

- **As you will notice from the table of contents, the manual for your new product is quite extensive.**
- **To guarantee perfect and successful work with this machine, please take some time to read the manual carefully.**
- **And finally, we believe you will enjoy years of great snow effects if you care for and maintain your LITTLE BLIZZARD®<sup>rev1209</sup>.**

**CITC**

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## **1. Set of Equipment Supplied**

- **1 LITTLE BLIZZARD® w/DMX (w/5-pin XLR in/out)**
- **1 Remote Controller w/5-pin XLR in/out**
- **1 Bracket for hanging w/hardware**
- **Empty one-gallon bottle**
- **Instruction booklet and warranty card**
- **1 Power Cord**
- **1 Extra fuse in fuse box**

## **2. Accessories**

- **C-Clamp with Safety Cable P/N 250110**
- **C-clamp w/eyebolt & hanging harness for 5 gal. Cubitainer P/N 250076**
- **LITTLE BLIZZARD® Road Case P/N 250205**
- **LITTLE BLIZZARD® Basic Fluid – Long Lasting P/N 150215**
- **Little Blizzard Fluid™ Extra Dry (travels up to 50') P/N 150160**
- **Little Blizzard Fluid™ Dry (travels beyond 50') P/N 150190**
- **Little Blizzard Fluid™ Dry 100 (travels beyond 100') P/N 150211**
- **Little Blizzard Fluid™ - Ultraviolet – Light blue P/N 150250**
- **Little Blizzard Fluid™ - Ultraviolet – Light Pink P/N 150280**
- **Little Blizzard Fluid™ - Ultraviolet – Bluish White P/N 150220**
- **Director Fan P/N 100140 (230VAC P/N 100145)**
- **Hurricane II Fan P/N 100160 (230VAC P/N 100165)**
- **FX Fan P/N 100141 (230VAC P/N 100142)**

**Please check whether all the products you ordered are supplied.**

### 3. Description of the LITTLE BLIZZARD®

The LITTLE BLIZZARD® DMX is CITC's most popular evaporating snow effect product. Insulated for quietness, you can have optional super soundproofing in the SP (soundproof) model. The unit incorporates a volume control to adjust pump output, a two-speed fan control and a flake size adjustment lever. It can run continuously without overheating. Flakes fly 15-20 feet. A remote with 25ft (7.6m) cable is included which controls On/Off and pump Volume. Internal 5-pin DMX comes standard in this model.

### 4. Safety instructions

**WARNING: Read and understand all labels and operating instructions before attempting installation.**

- Never open the machine as this could void your warranty!  
**Risk of electrical shock-** This device is supplied with a grounding conductor. To reduce risk of electrical shock, connect only to properly grounded, grounding type receptacles. Never remove the third prong from the plug.
- Depending on type of voltage ordered, this machine requires a 120V/20Amp circuit or a 230V/10Amp circuit for operation. The LITTLE BLIZZARD® draws approximately 7 amps at 120 VAC (4 amps at 230VAC). During LITTLE BLIZZARD® operation this circuit should be dedicated to the LITTLE BLIZZARD®. If you have any doubts about the capacity or grounding of your existing circuits, consult a qualified electrician.
- Be sure area around snow machine is dry before applying electrical power.
- Make sure that your unit is pointed in a direction that leaves at least a 10ft (3m) open area out in front. More area is better. Place the front of the machine away from direct contact with electrical instruments and people. Close output is wet.
- Never operate the pump without fluid passing through the tube. This could cause the pump to overheat and damage the piston. Operating the pump without fluid is not covered under warranty.
- Fluid is very slippery when spilled. Care in keeping any drips or spills cleaned up is necessary.
- Do not store LITTLE BLIZZARD® in freezing conditions.

## 5. Operating the LITTLE BLIZZARD®

### 5.1 Selecting the Location

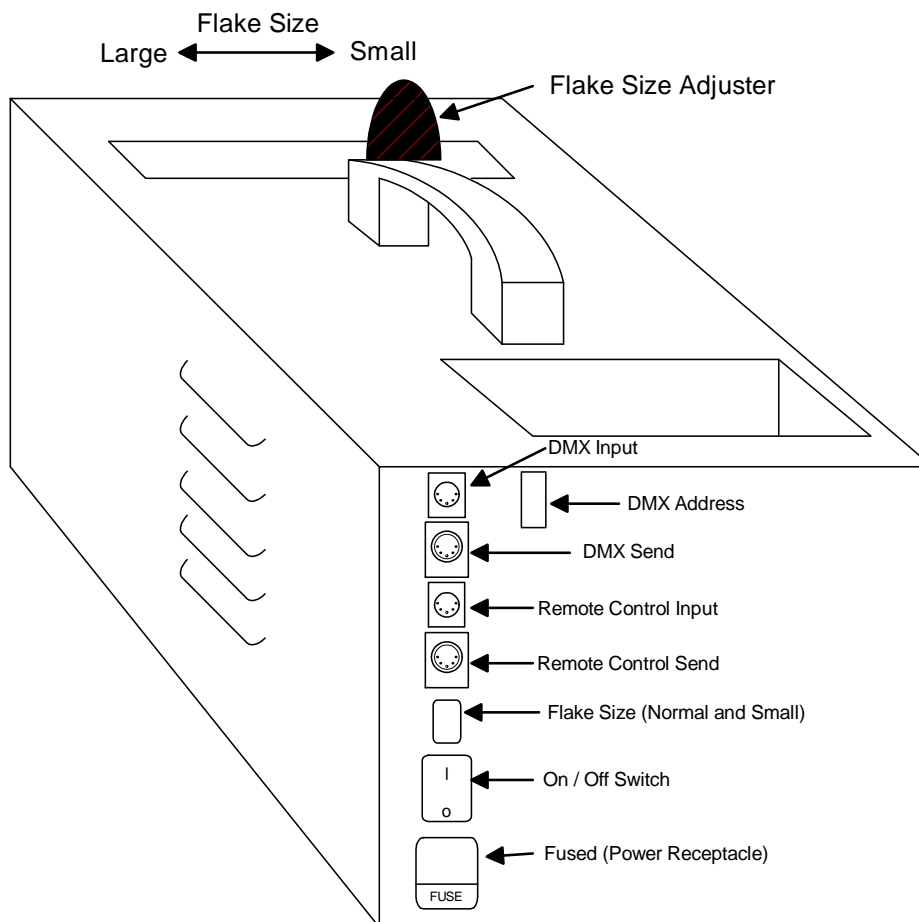
Operate this machine in a level position, being sure the fluid bottle is not going to be above the level of the machine. Un-level positions may cause siphoning or dripping.

### 5.2 Electrical Power Requirements

Check for proper electrical connection on the rear of the machine. Be sure your supply can offer 10 amps at 120V; or for those of you that have purchased a separate 230v machine, 5A power supply.

### 5.3 Hooking things up

Plug the 5-pin XLR of the Remote Control to the inlet marked "Remote Control". The output may be used to run extensions to other machines, so they could all operate on one remote control. Note: Maximum extension: 5-pin XLR cable should not exceed 50' total distance or possible loss of control may occur.



## 5.4 Selecting the fluid

Fill the bottle with CITC's Little Blizzard™ Fluid, placing the tubing with the filter inside and at the bottom of the bottle. Use "Extra Dry" fluid for quickest evaporating snow. For results that cause the snow to evaporate within seconds of touching, use a Hurricane Fan to dry the water from the flakes as they leave the machine. This also causes the snowflakes to stay airborne longer; creating a more realistic falling snow that drifts and floats through the air. Without the use of a fan, the flakes will fall to the floor due to the heaviness of the water content and could remain as a residue for several minutes. Use "Dry fluid" for longer lasting snow when flying over 45 feet or 15m. Use "Dry 100" for falling snow over 100' or 30m.

## 5.5 Operating the machine

- o The power button is located on the back and will illuminate when turned on, however this will not start the machine without the remote control. Just above the plug-in for the remote is another switch for speed control (see illustration on page 5). This speed allows further adjustment of the type of flakes you can choose (see below).
- o Before turning on the Little Blizzard™, always start your lever adjustment on the "Flake Size Adjuster" in the smallest position. Watch the flakes change size. This will allow the snow size particles to be the most consistent size w/ least use of fluid. For applications where a larger particle is needed, slowly adjust the lever toward the "largest" without changing the volume. For remote control of particle size, increase the volume control knob (on the remote control). Notice the remote control knob will also start and stop the machine. Similar to the control on DMX, the volume knob is off at 0% – 5%, then starts the blower above 5%. At 50% the snow will slowly start. 60% - 80% is the best adjusted volume. 80% - 100% may possibly make too large a flake size.
- o The "Normal/Small" switch (located at the top back of the machine) should be set to "Normal" position for best output of flakes. Use "Small" only when wanting the smallest flakes to travel the farthest, as this setting will be noisier. For quiet operation, only use the "Normal" setting. For driest evaporation in short distance, use tiniest with the volume control turned low.
- o Place a long distance fan (Hurricane Fan) under or close to the Little Blizzard™ for blowing the snow in an upward or outward movement. Use of a fan is highly recommended even if a short distance. Fan air and falling snow should meet 20 - 30 inches (50cm – 75cm) in front of the LITTLE BLIZZARD®. The snow coming from the machine will fall into the draft of the upward air movement and start to fly the direction the fan is pointed. The fan air will also cause the "snowflakes" to dry while it is traveling 30 feet (10m) or more. Never have the fan behind the LITTLE BLIZZARD® blowing at it. This will cause a back draft and create the wrong effect.

## 5.6 DMX Control

With DMX control, you will be able to adjust the snow output. The blower starts above 5% and snow starts above 50%. Adjustment of the snow is from 60% to 80% for best results. Adjust slowly and visually set each machine. Section 5.10 for more details on the DMX system.

## 5.7 Rest Period

The blower in the machine now can operate up to 60 minutes before needing a 5 to 10 minute cooling down period. Note: Test the air coming from the front of the machine while the volume control or fluid is off. If after 60 minutes the air is not hot, you may be in a cool environment that is conducive to running the LITTLE BLIZZARD® for longer periods. Fluid should be 75° F (26°C)+.

## 5.8 Shut down

When finished with the machine, clean the tube and pump with water, always leaving water in the tube and pump to prevent oxidation. This will keep the pump piston from becoming stuck and keep the valves operating. Leaving clean water in the pump will help keep out oxidation.

## 5.9 Troubleshooting

### 1. If the pump does not draw fluid

If the pump does not draw fluid into the unit, be sure the tubing is in the fluid, not above the fluid. Check electrical power to the machine. Hold up tubing, remove filter and push, blow or use a turkey baster to force the fluid inside the pump. Try again to see if it will pump now. Check to hear any sound coming from the pump side (nearest the top). A slight vibrating sound should be heard if the pump is pumping fluid. A loud knocking sound will be heard if only air is in the line and fluid has not come in yet. Force fluid through the line to get it started. This is called “priming” and the line needs to be full of fluid for the fog mechanism to work. **Note: do not run the pump without fluid passing through the tube. This will cause the pump to become hot and could damage the piston. This is not covered under warranty.**

## 5.10 Notes on DMX operation

Each DMXed unit will occupy a unique DMX address on the DMX chain. By adjusting the dip switches on the side of the machine near the DMX cable plug-ins, the user may assign one address to the machine, giving you on/off and volume control with one DMX channel (there is no timer on this DMX).

Step 1). Attach the DMX cable to the upper “DMX Input” connector located on the back of the fogger.



Step 2). The DMX address is configured by adding the dip switch numbers together to total the number required. For example, DipSwitch 1 + 6 = 33. Your DMX channel would be 33. (Dip switches are set by moving the switch to the right toward the “on” arrow.)

Dip Switch	1	2	3	4	5	6	7	8	9
Channel #	1	2	4	8	16	32	64	128	256

**When you move the slide control or digital control;**

- 0 – 20% = Standby (volume output off)
- 21 – 100% = Volume Control

Between the values 50% to 100% the volume of snow output is regulated, with 60% being the minimum volume of snow produced and 80% approaching the maximum. The volume output rises as the DMX value is increased.

If Channel A has a value of 100%, the machine will operate at maximum output and may produce too large size flakes.

“Input” and “Output” designations on the DMX plugs are arbitrary (i.e., you can use the input plug for output and visa-versa). It is not necessary to attempt converting your DMX line’s connector to female/male to match the appropriate socket on the plug. As long as it is looped in/out, it will work.

## 6. Service and Maintenance

### 6.1 Care of your LITTLE BLIZZARD® will give you years of service. Note: cleaning your unit is going to pay off in constant good performance.

1. Each 50 hours of operation or when finished with the machine, clean the tube and pump with water, always leaving water in the tube and pump to prevent oxidation.
2. After use, dry all areas on the exterior of the machine with a soft cloth. Remove any LITTLE BLIZZARD® Fluid from inside the bottle compartment or outside area.
3. Do not transport or ship with LITTLE BLIZZARD® Fluid inside the machine.
4. Do not use or store in freezing conditions.

## 7. Technical Data

Technical Data LITTLE BLIZZARD® DMX P/N 100241 (230V P/N 100246) LITTLE BLIZZARD® SP DMX P/N 100242 (230V P/N 100247)	
Dimensions	20" x 10" x 12" (51cm x 25cm x 30cm)
Weight	30 lbs (14 kg)
Shipping Weight	35 lbs. (16 kg)
Shipping Box Size	25" x 15" x 16" (64 cm x 38 cm x 41 cm)
Snowflake control options	Pump Volume Control, Two-speed Fan and Flake Size Adjuster lever
Remote Control	On/off and volume control 0-100%
Remote Control cable	25 ft (7.6 m)
Sound	LB DMX: 71–75 db LB Soundproof DMX: 60-65 db
Fluid	CITC LITTLE BLIZZARD® Fluid available in Long-Lasting, Dry, Extra-Dry, Dry 100 & Ultraviolet
Run Time	continuous
Electrical Supply	120 VAC, 10 amps, 60 hz or 230 VAC, 5 amps, 50 hz
Fuse	120VAC: 10 A – 250 V, 5x20 mm 230VAC: 5A – 250V, 5x20 mm
CE approved	CE approved parts
Limited Warranty	One year

Rev: 1/16/04

## 8. Limited Warranty Conditions

This limited warranty guarantees to the original purchaser that this product shall be free of defects in material and workmanship, under normal use, for a period of one year from the date of purchase shown on the sales receipt. This warranty covers parts and labor providing the product is returned to CITC in the original shipping carton and packaging. The warranty for electrical is a (90) NINETY DAY limited warranty.

Damage resulting from shipping, accidents, misuse, negligence, unauthorized repairs or modification is not covered by this warranty. Using any fluid other than what is recommended for this machine will void warranty. No liability is accepted for injury or for loss, damage or expense resulting from any interruption whatsoever in the operation of the product or from any consequential loss arising there from. No liability is accepted for normal wear and tear.

We wish to satisfy YOU, our customer, and have implemented many measures to prevent problems and assure customer satisfaction. However, should you need a missing part or have a functional problem with your product, please call (888) 786-CITC from 7:30 am – 4:00 pm (Pacific Time) Monday – Friday, except for holidays. Our customer service department will respond to your problems immediately.

Please have the following information available when you call:

Model and Serial Number

Where and when the product was purchased

Nature of the problem

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Subject to the following conditions, CITC will repair any defect or fault in the unit if it is caused by a proven factory defect within one year of delivery to the end user.

Insignificant deviations of the regular product quality does not guarantee replacement rights, nor do faults or defects caused by water, by generally abnormal environment conditions or Force Majeure:

1. Faulty parts will be repaired or replaced (manufacturer's choice) with correct parts. Faulty units must be shipped to CITC at customer's expense. An RMA# must come with the unit.
2. The customer loses all rights for limited warranty services, if any repairs or adjustments are done to the units by unauthorized persons and/or if spare parts are used, which are not approved by CITC. The right of limited warranty service is also lost if a fluid other than appropriate CITC fluid has been used or if units are sent to in with full fluid bottles.
3. Exposure to outside elements voids Warranty. Unit cannot be used outdoors or in wet weather without complete protection against the elements. Even then, high salty or humid conditions will cause instant corrosion of connectors and will void Warranty.

4. Freight costs to and from CITC when under the limited warranty services are the responsibility of the customer. Customer must place appropriate insurance on return of product. However, if product is returned due to factory defect within the first 30 days of receipt, CITC will cover the cost of returning the repaired unit to the customer.
5. Limited warranty services do not cause an extension of the limited warranty time or the start of a new limited warranty time. The warranty of replaced parts ends with the limited warranty time of the whole unit.
6. If a defect/fault can not be repaired by us in a satisfactory time, we will, within 30 days after sale of the unit, either:  
  
Replace the whole unit for free or take back the whole unit and refund the purchase price.
7. Further claims, especially for damages, losses etc. outside the unit are excluded.
8. Your limited warranty coverage is based on completion of the warranty card and returning it with your proof of purchase within 30 days of purchase.

**Your limited warranty coverage is based on completion of the warranty card and returning it with your proof of purchase within 30 days of purchase. If you should send the unit for service, do not forget to remove any liquid from the fluid bottle, and place unit in original box. Obtain your RMA# by calling CITC. Payment arrangements for repair must be made before receiving RMA # in case unit is not covered under Limited Warranty.**

**Send unit to:**

**CITC  
RMA # XXXXXXX  
1420 80<sup>th</sup> Street SW #D  
Everett, WA 98203  
Tel: (888) 786-CITC or (425) 776-4950  
Fax: (425) 776-5129  
Website: [www.citcfx.com](http://www.citcfx.com)  
E-mail: [info@citcfx.com](mailto:info@citcfx.com)**



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